



OPERATING PERMIT Issued Pursuant to Tennessee Air Quality Act

Date Issued: January 30, 2015

Permit Number:
069729P

Date Expires: August 1, 2024

Issued To:
US Cellular-Snyder-Site 223509

Installation Address:
1585 Sweetwater-Vonore Road
Sweetwater

Installation Description:
One (1) Internal Combustion
Diesel Fuel-Fired Engine (80 hp)
for an Emergency Generator

Emission Source Reference No.
62-0188-01
NSPS (Subpart IIII)
NESHAP (Subpart ZZZZ)

The holder of this permit shall comply with the conditions contained in this permit as well as all applicable provisions of the Tennessee Air Pollution Control Regulations.

CONDITIONS:

1. The application that was utilized in the preparation of this permit is dated December 31, 2014 and is signed by Ronald Lewis, Manager, Environmental, Health and Safety for the permitted facility. If this person terminates employment or is reassigned different duties and is no longer the responsible person to represent and bind the facility in environmental permitting affairs, the owner or operator of this air contaminant source shall notify the Technical Secretary of the change. Said notification shall be in writing and submitted within thirty (30) days of the change. The notification shall include the name and title of the new person assigned by the source owner or operator to represent and bind the facility in environmental permitting affairs. All representations, agreement to terms and conditions and covenants made by the former responsible person that were used in the establishment of limiting permit conditions on this permit will continue to be binding on the facility until such time that a revision to this permit is obtained that would change said representations, agreements and covenants.

TAPCR 1200-03-09-.02(1)

(conditions continued on next page)


TECHNICAL SECRETARY

No Authority is Granted by this Permit to Operate, Construct, or Maintain any Installation in Violation of any Law, Statute, Code, Ordinance, Rule, or Regulation of the State of Tennessee or any of its Political Subdivisions.

NON-TRANSFERABLE

POST AT INSTALLATION ADDRESS

2. This source is subject to the National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (40 CFR Part 63, Subpart ZZZZ). Pursuant to 40 CFR §63.6590(c)(1), this affected source (which is a new stationary RICE located at an area source of HAP emissions) shall meet the requirements of 40 CFR Part 63 by meeting the requirements of 40 CFR Part 60, Subpart IIII. No further requirements apply for this engine under 40 CFR Part 63.

3. The maximum total heat input capacity for this source shall not exceed 0.47 MM Btu per hour.
 TAPCR 1200-03-09-.01(1)(d) and the construction permit application dated July 2, 2014.
 The Technical Secretary may require the permittee to prove compliance with this rating.

4. Only diesel fuel that meets the requirements in condition 10 shall be used as fuel for this source.
 TAPCR 1200-03-09-.01(1)(d) and the application dated July 2, 2014
 Compliance with this requirement shall be assured by maintaining records required by Condition 10.

5. Particulate Matter (PM) emitted from this source shall not exceed 0.4 gram per kilowatt-hour (0.05 pound per hour).
 40 CFR §60.4205(b), 40 CFR §89.112, Table 1
Compliance Method: The permittee shall assure compliance with this emission limitation by assuring compliance with Condition 12.

6. Sulfur Dioxide (SO₂) emitted from this source shall not exceed 0.16 pound per hour.
 TAPCR 1200-03-14-.03(5)
Compliance Method: The permittee shall assure compliance with this emission limitation by assuring compliance with Condition 3. Compliance with this emission limitation is based on an emission factor of 0.00205 pound of SO₂ per horsepower-hour (EPA AP-42, Section 3.3, October 1996).

7. Carbon Monoxide (CO) emitted from this source shall not exceed 5 grams per kilowatt-hour (0.7 pound per hour).
 40 CFR §60.4205 (b), 40 CFR §89.112, table 1
Compliance Method: The permittee shall assure compliance with this emission limitation by assuring compliance with Condition 12.

8. Volatile Organic Compounds (VOCs) emitted from this source shall not exceed 0.2 pound per hour based on daily average.
 TAPCR 1200-03-07-.07(2)
Compliance Method: The permittee shall assure compliance with this emission limitation by assuring compliance with condition 3. Compliance with this emission limitation is based on an emission factor of 0.00251 pound of TOC per horsepower-hour (EPA AP-42, Section 3.3, October 1996).

9. Non-Methane Hydrocarbons and Nitrogen Oxides (NMHC+NO_x) emitted from this source shall not exceed 4.7 grams per kilowatt-hour (0.6 pound per hour).

40 CFR §60.4205(b), 40 CFR §89.112, table 1

Compliance Method: The permittee shall assure compliance with this emission limitation by assuring compliance with Condition 12.

10. Pursuant to 40 CFR §60.4207(b), beginning October 1, 2010, the permittee shall use diesel fuel that meets the requirements of 40 CFR 80.510(b) for nonroad diesel fuel, as follows:
- (1) Sulfur content shall not exceed 15 ppm maximum for nonroad diesel fuel.
 - (2) Cetane index or aromatic content, as follows:
 - (i) A minimum cetane index of 40; or
 - (ii) A maximum aromatic content of 35 volume percent.

Compliance Method: The permittee shall maintain purchase receipts, vendor certifications, material safety data sheets, or other records to demonstrate that all fuel purchased for this source meets the requirements of this condition (any fuel labeled as ultra-low sulfur non-highway diesel fuel or ultra-low sulfur highway diesel fuel meets these requirements). These records shall be made available to the Technical Secretary for inspection upon request. These records must be maintained for a period of at least (2) years from the purchase date.

11. Visible emissions from this source shall not exhibit greater than twenty percent (20%) opacity, except for one (1) six-minute period per one (1) hour period and for no more than four (4) six-minute periods in any twenty-four (24) hour period. Visible emissions from this source shall be determined by EPA Method 9, as published in the current 40 CFR 60, Appendix A (six-minute average).

TAPCR 1200-03-05-.01(1) and 1200-03-05-.03(6)

12. Pursuant to 40 CFR §60.4211(a), the permittee must comply by purchasing an engine certified to the emission standards in § 60.4205(b) for the same model year and maximum engine power. The permittee must do all of the following :

- (1) Install and configure the engine according to the manufacturer's emission-related specifications;
- (2) Operate and maintain the stationary CI internal combustion engine and control device according to the manufacturer's emission-related written instructions;
- (3) Change only those emission related settings that are permitted by the manufacturer; and
- (4) Meet the requirements of 40 CFR parts 89, 94 and/or 1068, as they apply to the permittee.

13. In order for the engine to be considered an emergency stationary ICE under this subpart, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year is prohibited. If you do not operate the engine according to the requirements in paragraphs (1) through (3) of this condition, the engine will not be considered an emergency engine under this subpart and must meet all requirements for non-emergency engines.

(1) There is no time limit on the use of emergency stationary ICE in emergency situations.

(2) You may operate your emergency stationary ICE for any combination of the purposes specified for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by this section counts as part of the 100 hours per calendar year allowed by this paragraph.

- (i) Emergency stationary ICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the

vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of emergency ICE beyond 100 hours per calendar year.

(ii) Emergency stationary ICE may be operated for emergency demand response for periods in which the Reliability Coordinator under the North American Electric Reliability Corporation (NERC) Reliability Standard EOP-002-3, Capacity and Energy Emergencies (incorporated by reference, see § 60.17), or other authorized entity as determined by the Reliability Coordinator, has declared an Energy Emergency Alert Level 2 as defined in the NERC Reliability Standard EOP-002-3.

(iii) Emergency stationary ICE may be operated for periods where there is a deviation of voltage or frequency of 5 percent or greater below standard voltage or frequency.

(3). 40 CFR 60.4211(f)(3) Emergency stationary ICE may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response provided in paragraph (f)(2) of this section. Except as provided in paragraph (f)(3)(i) of this section, the 50 hours per calendar year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

(i) The 50 hours per year for non-emergency situations can be used to supply power as part of a financial arrangement with another entity if all of the following conditions are met:

(A) The engine is dispatched by the local balancing authority or local transmission and distribution system operator;

(B) The dispatch is intended to mitigate local transmission and/or distribution limitations so as to avert potential voltage collapse or line overloads that could lead to the interruption of power supply in a local area or region.

(C) The dispatch follows reliability, emergency operation or similar protocols that follow specific NERC, regional, state, public utility commission or local standards or guidelines.

(D) The power is provided only to the facility itself or to support the local transmission and distribution system.

(E) The owner or operator identifies and records the entity that dispatches the engine and the specific NERC, regional, state, public utility commission or local standards or guidelines that are being followed for dispatching the engine. The local balancing authority or local transmission and distribution system operator may keep these records on behalf of the engine owner or operator.

40 CFR §60.4211(f) and TAPCR 1200-03-09-.03(8)

14. The permittee shall keep a log of the number of operating hours for each month and calendar year, in a form that readily provides the information required in the following table and shows compliance with Condition 13. All data, including all required calculations, must be entered in the log no later than thirty (30) days from the end of the month for which the data is required. The permittee shall retain this record at the source location for a period of not less than two (2) years and keep this record available for inspection by the Technical Secretary or their representative. TAPCR 1200-03-10-.02(2)(a)

MONTHLY/YEARLY LOG: Source 62-0188-01

UNIT ID: _____

Year:			
Month	Hours Operated (non-emergency)	Hours Operated (Maintenance and readiness testing)	Hours Operated (emergency)
January			
February			
March			
Total			

15. This source shall comply with all applicable state and federal air pollution regulations. This includes, but is not limited to, federal regulations published under 40 CFR 63 for sources of hazardous air pollutants and 40 CFR 60, New Source Performance Standards.

TAPCR 1200-03-09-.03(8)

16. The permittee shall apply for renewal of this operating permit not less than sixty (60) days prior to the permit expiration date, pursuant to Division Rule 1200-03-09-.02(3).

(end of conditions)

The permit application gives the location of this source as 35. 607105 latitude; -84.427332 longitude